

IN THE CLAIMS:

Please amend the claims as follows.

1-23. (Cancelled)

24. (Currently Amended) A method of forming milled teeth on a roller cone of a milled tooth roller cone rock bit comprising:

shaping a crest of at least one chisel shaped milled tooth such that said crest comprises at least one convex profile from one corner to an opposite corner of said crest, wherein said convex crest is adapted to produce at least one of a convex axial stress distribution, a substantially even axial stress distribution, and a substantially smooth axial stress distribution; and

radiusing each of said corners at the ends of the crest of said at least one chisel shaped milled tooth,

applying a layer of hardfacing material such that a thickness of said layer is selectively greater on at least one corner than a thickness of the layer across a middle of the crest.

25. (Withdrawn)

26. (Currently Amended) The method of claim 2[[5]]4, wherein said layer of hardfacing material is applied over said radiused corners.

27. (Currently Amended) The method of claim 2[[5]]4, further comprising:

applying said layer of hardfacing material such that a thickness of said layer of hardfacing material varies across at least a predetermined portion of said at least one chisel shaped milled tooth.

28. (Currently Amended) The method of claim 2[[5]]4, wherein a crest of said layer of hardfacing material is substantially flat.
29. (Currently Amended) The method of claim 2[[5]]4, wherein a crest of said layer of hardfacing material is convex.
30. (Cancelled)
31. (Previously Presented) The method of claim 24, wherein there is a single convex profile formed between said radiused ends of said crest of said at least one chisel shaped milled tooth.
32. (Previously Presented) The method of claim 24, further comprising:  
shaping a flank of said at least one chisel shaped milled tooth such that  
said flank comprises at least one convex profile.
33. (Previously Presented) The method of claim 32, further comprising:  
shaping an end of said at least one chisel shaped milled tooth such that  
said end comprises at least one convex profile.
34. (Previously Presented) The method of claim 32, further comprising:  
shaping an end of said at least one chisel shaped milled tooth such that  
said end comprises at least one concave profile.
35. (Previously Presented) The method of claim 24, further comprising:  
shaping a flank of said at least one chisel shaped milled tooth such that  
said flank comprises at least one concave profile.
36. (Previously Presented) The method of claim 35, further comprising:  
shaping an end of said at least one chisel shaped milled tooth such that  
said end comprises at least one convex profile.

37. (Previously Presented) The method of claim 35, further comprising:  
shaping an end of said at least one chisel shaped milled tooth such that  
said end comprises at least one concave profile.
38. (Previously Presented) The method of claim 37, further comprising:  
shaping an end of said at least one chisel shaped milled tooth such that  
said end comprises at least one convex profile.
39. (Previously Presented) The method of claim 24, further comprising:  
shaping an end of said at least one chisel shaped milled tooth such that  
said end comprises at least one concave profile.
40. (Previously Presented) The method of claim 24, wherein shaping said crest of said  
at least one chisel shaped milled tooth comprises:  
substantially aligning said crest with an axis of rotation of said roller cone.
41. (Previously Presented) The method of claim 24, wherein shaping said crest of said  
at least one chisel shaped milled tooth comprises:  
substantially aligning said crest with a line that is within  $40^0$  of an axis of  
rotation of said roller cone.
42. (Previously Presented) The method of claim 24, wherein shaping said crest of said  
at least one chisel shaped milled tooth comprises:  
substantially aligning said crest with a line that is within  $30^0$  of an axis of  
rotation of said roller cone.

43. (Previously Presented) The method of claim 24, wherein shaping said crest of said at least one chisel shaped milled tooth comprises:
- substantially aligning said crest with a line that is within  $15^{\circ}$  of an axis of rotation of said roller cone.